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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/496,183	02/02/2000	Junichi Hikita	P3213-9038 5846			
7:	590 05/21/2002					
Arent Fox Kinter Plotkin & Kahn PLLC			EXAM	EXAMINER		
	do out Avenue N. W.	CRUZ, LOURDES C				
Suite 600 Washington, DC 20036			ART UNIT	PAPER NUMBER		
w asimigion, D	C 20030		2827			
			DATE MAILED: 05/21/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.		Applicant(s)	
. Office Action Summary	09/496,183		HIKITA ET AL.	
cince richen Cummary	Examiner		Art Unit	NIC
	Lourdes C. Cruz		2827	
The MAILING DATE of this communication appe Period for Reply	ears on the cover	sheet with the co	rrespondence ad	idress
A SHORTENED STATUTORY PERIOD FOR REPL'THE MAILING DATE OF THIS COMMUNICATION.	Y IS SET TO EXF	PIRE <u>3</u> MONTH(	S) FROM	
<ul> <li>Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communi</li> <li>If the period for reply specified above is less than thirty (30) day be considered timely.</li> <li>If NO period for reply is specified above, the maximum statutory communication.</li> <li>Failure to reply within the set or extended period for reply will, b</li> <li>Status</li> </ul>	ication. /s, a reply within the s / period will apply and	tatutory minimum of I will expire SIX (6) N	thirty (30) days will 10NTHS from the m	ailing date of this
1) Responsive to communication(s) filed on 12 /	March 2002			
· _ ·	is action is non-fi	nal		
3) Since this application is in condition for allower closed in accordance with the practice under the condition of the condition for allower closed in accordance with the practice under the condition of the condition for allower closed in accordance with the practice under the condition of th	ance except for fo	rmal matters, pro	osecution as to t 53 O.G. 213.	he merits is
Disposition of Claims				
4)⊠ Claim(s) <u>1-5 and 8-11</u> is/are pending in the ap	plication.			
4a) Of the above claim(s) 8 and 9 is/are withdr	awn from conside	eration.		
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>1-5 and 10-11</u> is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claims 8-9 are subject to restriction and/or ele	ection requiremer	nt.		
Application Papers				
9) The specification is objected to by the Examine	er			
10) The drawing(s) filed on is/are objected to		ır		
11) The proposed drawing correction filed on	•		roved	
12) The oath or declaration is objected to by the Ex	_	od b) disappi	iovca.	
	Carrillor.			
Priority under 35 U.S.C. § 119				
13) Acknowledgment is made of a claim for foreign	priority under 35	U.S.C. § 119(a)	-(d).	
<ul><li>a) ⊠ All b) ☐ Some * c) ☐ None of the CERTIF</li><li>1. ☑ received.</li></ul>	IED copies of the	priority docume	nts have been:	
2. received in Application No. (Series Code	e / Serial Number	)		
3. received in this National Stage application	n from the Intern	ational Bureau (F	PCT Rule 17.2(a	)).
* See the attached detailed Office action for a list of	of the certified co	pies not received	<b>i</b> .	
14) Acknowledgement is made of a claim for dome	stic priority under	35 U.S.C. & 119	9(e).	
Attachment(s)				
<ul> <li>15) Notice of References Cited (PTO-892)</li> <li>6) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>7) Information Disclosure Statement(s) (PTO-1449) Paper No(s)</li> </ul>	18) [] 19) [] 20) []	-	/ (PTO-413) Paper N Patent Application (F	

. Application/Control Number: 09/496,183

Art Unit: 281527

#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter that the applicant regards as his invention.

Claims 1-5 and 10-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The phrase "the other" lacks antecedent basis in the claim. See that applicant defines at "least one pair of opposite sides". Therefore, by using "the other" of the opposite sides, Applicant has rendered the claim indefinite because it is unclear if another pair is being defined, if it refers to only one side. Since the amendment to the claims has rendered the claims indefinite, the examiner has examined them as best understood.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) The invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1-5 and 10-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Wenzel et al. (U.S. Patent No. 6150724).

Application/Control Number: 09/496,183

Art Unit: 281527

Regarding claims 1, 3, and 4 Wenzel discloses (See Figs. 5,7, and 18) a semiconductor device comprising a first semiconductor chip 102 and a second semiconductor chip 104 superposed on and bonded to a surface of the first semiconductor chip, wherein in a region on the surface of the first semiconductor chip where the second semiconductor chip is bonded to the first semiconductor chip, chip connection portions (corresponding to 108) are arranged in standardized positions so as to fit a plurality of predetermined types of semiconductor chips; and wherein on the second semiconductor chip, chip connection portions are arranged in standardized positions so as to fit the chip connection portions arranged on the first semiconductor chip; wherein at least part of the chip connection portions arranged on the first semiconductor chip are common to the plurality of predetermined types of chips so as to be used for input /output signals.

See that the prior art recites all the structural limitation above. The claim as amended, however, recites an intended use in conjunction with other structural limitations. Such limitations include, for example, the recitation of "input/output signals having identical specifications". This quoted intended use limitation does not distinguish the claimed invention from that disclosed by the prior art since the device of the prior art could be used with predetermined types of chips so as to be used for input/output signals having identical specifications.

Regarding claims 2 and 5 Wenzel discloses semiconductor chips with identical functions but of different grades in as much as any specific function is claimed.

Application/Control Number: 09/496,183

Art Unit: 281527

Wenzel also teaches a chip connection region wherein chip connection portions (corresponding to 108) are formed in standardized portions so as to fit any of the plurality of predetermined types of semiconductor chips, and the chip connecting portions are arranged:

- Along an edge (left corner) of the chip connection region (Claim 10)
- Along an edge and in an inner portion of the chip connection region
   (Claim 11)
- Along an edge of the chip connection region, which is rectangular in shape, and also along opposite sides of the chip connection region (Claim 12)

### Response to Arguments

Applicant has failed to provide arguments against the last office action. Instead, Applicant limited his/her arguments to the allowability of the claims as amended. However, due to the indefiniteness of the amendment and the 112 problems raised by it, the rejection as mailed December –2001 is still applicable to the claims as best understood by the examiner. Find rejection above.

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

Application/Control Number: 09/496,183

Art Unit: 281527

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Lourdes C. Cruz whose telephone number is 707-306-

5691. The examiner can normally be reached on M-F 8:00- 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David L. Talbott can be reached on 703-305-9883. The fax phone numbers

for the organization where this application or proceeding is assigned are 703-308-7722

for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0956.

Lourdes C. Cruz Examiner Page 5

Art Unit 2827

Lourdes Cruz May 18, 2002

DAVID L. TALBUTI

JUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800